

**IN THE CLAIMS:**

1 1. (PREVIOUSLY PRESENTED) A method of transferring ownership of a volume com-  
2 prising a plurality of disks from a source file server to a destination file server comprising  
3 the steps of:

4 changing ownership information stored in each of the plurality of disks to an un-  
5 owned state from a state of source file server ownership; and

6 changing ownership information stored in each of the plurality of disks to a state of  
7 destination file server ownership from the un-owned state.

1 2. (PREVIOUSLY PRESENTED) The method of claim 1 wherein the step of changing  
2 ownership information stored in each of the plurality of disks to an un-owned state fur-  
3 ther comprises the steps of:

4 changing a first ownership attribute of the disks to an un-owned state; and  
5 changing a second ownership attribute of the disks to an un-owned state

1 3. (PREVIOUSLY PRESENTED) The method of claim 1 wherein the step of changing  
2 ownership information stored in each of the disks to a destination file server ownership  
3 further comprises the steps of:

4 changing a first ownership attribute of the disks to a destination file server state;  
5 and

6 changing a second ownership attribute of the disks to a destination file server  
7 state.

1 4. (PREVIOUSLY PRESENTED) A method for transferring ownership of a volume hav-  
2 ing a plurality of disks, the method comprising the steps of:  
3 sending a first message to a source file server, the message containing a request  
4 for transferring ownership of a volume of disks;  
5 receiving a response from the source file server;  
6 if the response contains abort information, aborting the transfer;  
7 if not, verifying that the volume can be transferred;  
8 if the volume can be transferred, sending a second message to the source file  
9 server to perform the first part of a transfer process to transfer ownership from the source  
10 file server to an un-owned state;  
11 receiving a response from the source file server after it performed the first part of  
12 the transfer process; and  
13 in response to the step of receiving, performing a second part of the transfer proc-  
14 ess to transfer ownership from the un-owned state to a destination file server.

1 5. (ORIGINAL) The method of claim 4 wherein the second part of the transfer process  
2 further comprises the steps of:  
3 changing a first ownership attribute of the disks to a destination file server state;  
4 and  
5 changing a second ownership attribute of the disks to a destination file server  
6 state.

1 6. (PREVIOUSLY PRESENTED) A method for transferring ownership of a volume hav-  
2 ing a plurality of disks comprising the steps of:  
3 verifying that the disks can be transferred in response to an initial request from a  
4 destination file server;

5           sending an acknowledgement by the source file server to the destination file  
6 server;  
7           receiving a second-request from the destination file server;  
8           aborting if the second-request contains abort information;  
9           changing the volume to an off-line status in response to the second-request not  
10 containing abort information;  
11           performing a first part of a transfer process, the first part of the transfer process  
12 being transferring ownership from the source file server to an un-owned state; and  
13           sending a message to the destination file server to prompt a second part of the  
14 transfer process, the second part of the transfer process being transferring ownership from  
15 the un-owned state to the destination server.

1   7. (ORIGINAL) The method of claim 6 wherein the first part of the transfer process fur-  
2 ther comprises the steps of:

3           changing a first ownership attribute of the disks to an un-owned state; and  
4           changing a second ownership attribute of the disks to an un-owned state.

1   8. (ORIGINAL) A method of transferring ownership of a volume having a plurality of  
2 disks comprising the steps of:

3           writing a first destination log file;  
4           verifying that the plurality of disks can be transferred;  
5           writing a first source log file;  
6           verifying that the volume can be accepted by the destination;  
7           writing a second destination log file;  
8           writing a second source log file  
9           performing a first part of a transfer process;  
10          writing a third source log file;

11 writing a third destination log file;  
12 performing a second part of the transfer process; and  
13 erasing the previously written logs.

1 9. (PREVIOUSLY PRESENTED) A method of transferring ownership of a volume hav-  
2 ing a plurality of disks comprising the steps of:  
3 writing a first log file to record a first part of a transfer process;  
4 performing the first part of the transfer process, the first part of the transfer proc-  
5 ess being changing ownership information stored on each disk of the volume from a  
6 source server to an un-owned state;  
7 writing a second log file to record a second part of the transfer process; and  
8 performing the second part of the transfer process, the second part of the transfer  
9 process being changing ownership information stored on each from the un-owned state to  
10 a destination server.

1 10. (ORIGINAL) A computer-readable medium for modifying ownership of disks rela-  
2 tive to a source file server and a destination file server, the computer-readable medium  
3 including instructions for performing the steps of:  
4 in the source file server, moving the disks from a source-owned state to an un-  
5 owned state; and  
6 in the destination file server, moving the disks from the un-owned state to a desti-  
7 nation-owned state.

1 11. (ORIGINAL) The computer-readable medium of claim 10 wherein the step of mov-  
2 ing the disks to an un-owned state further comprises the steps of:  
3 changing first ownership attribute of the disks to an un-owned state; and

4 changing a second ownership attribute of the disks to an un-owned state.

1 12. (ORIGINAL) The computer-readable medium of claim 10 wherein the step of mov-  
2 ing the disks from an un-owned state to a destination-owned state further comprises the  
3 steps of:

4 changing first ownership attribute of the disks to a destination-owned state; and  
5 changing a second ownership attribute of the disks to a destination-owned state.

1 13. (PREVIOUSLY PRESENTED) A system for transferring ownership of a volume  
2 having a disk from a source file server to a destination file server, the system comprising:  
3 means for changing ownership information stored in each of the disk from a state  
4 of source file server ownership to an un-owned state; and  
5 means for changing ownership information stored in each the disk from an un-  
6 owned state to a destination file server-owned state.

1 14. (PREVIOUSLY PRESENTED) The system of claim 13 wherein the means for  
2 changing ownership information from a state of source file server ownership to an un-  
3 owned state further comprises:  
4 means for changing ownership information stored in a predetermined sector of the  
5 disk to an un-owned state; and  
6 means for changing small computer system interface level 3 reservation of the  
7 disk to an un-owned state.

1 15. (PREVIOUSLY PRESENTED) The system of claim 13 wherein the means for  
2 changing ownership information from an un-owned state to a destination file server-  
3 owned state further comprises:

4 means for changing ownership information stored in a predetermined sector of the  
5 disk to a destination file server-owned state; and

6 means for changing small computer system interface level 3 reservation of the  
7 disk to a destination file server-owned state.

1 16. (PREVIOUSLY PRESENTED) A method of transferring ownership of a volume hav-  
2 ing a plurality of disks from a source file server to a destination file server, the method  
3 comprising the steps of:

4 changing a first attribute of ownership from source server ownership to an un-  
5 owned state by writing the change to a log file and rewriting the first attribute of owner-  
6 ship on the disk;

7 changing a second attribute of ownership from source ownership to an un-owned  
8 state by writing the change to a log file and rewriting the second attribute of ownership  
9 on the disk;

10 changing the first attribute of ownership from the un-owned state of ownership to  
11 destination server ownership by writing the change to a log file and rewriting the first at-  
12 tribute of ownership on the disk; and

13 changing the second attribute of ownership from the un-owned state to destination  
14 server ownership by writing the change to a log file and rewriting the second attribute of  
15 ownership on the disk.

1 17. (PREVIOUSLY PRESENTED) The method of claim 16, further comprising:

2 in the event of a failure during the process of transferring ownership, utilizing the  
3 log files to continue the process of changing ownership.

1 18. (PREVIOUSLY PRESENTED) A system to transfer ownership of a volume having a  
2 plurality of disks from a source file server to a destination file server, comprising:

3 means for changing a first attribute of ownership from source server ownership to  
4 an un-owned state by writing the change to a log file and rewriting the first attribute of  
5 ownership on the disk;

6 means for changing a second attribute of ownership from source ownership to an  
7 un-owned state by writing the change to a log file and rewriting the second attribute of  
8 ownership on the disk;

9 means for changing the first attribute of ownership from the un-owned state of  
10 ownership to destination server ownership by writing the change to a log file and rewrit-  
11 ing the first attribute of ownership on the disk; and

12 means for changing the second attribute of ownership from the un-owned state to  
13 destination server ownership by writing the change to a log file and rewriting the second  
14 attribute of ownership on the disk.

1 19. (PREVIOUSLY PRESENTED) The system of claim 18, further comprising:

2 in the event of a failure during the process of transferring ownership, means for  
3 utilizing the log files to continue the process of changing ownership.

1 20. (PREVIOUSLY PRESENTED) A system to transfer ownership of a volume having a  
2 plurality of disks from a source file server to a destination file server, comprising:

3 a first computer to change a first attribute of ownership from source server owner-  
4 ship to an un-owned state by writing the change to a log file and rewriting the first attrib-  
5 ute of ownership on the disk;

6 a second computer to change a second attribute of ownership from source owner-  
7 ship to an un-owned state by writing the change to a log file and rewriting the second at-  
8 tribute of ownership on the disk;

9           a third computer to change the first attribute of ownership from the un-owned  
10 state of ownership to destination server ownership by writing the change to a log file and  
11 rewriting the first attribute of ownership on the disk; and  
12           a fourth computer to change the second attribute of ownership from the un-owned  
13 state to destination server ownership by writing the change to a log file and rewriting the  
14 second attribute of ownership on the disk.

1   21. (PREVIOUSLY PRESENTED) The system of claim 20, further comprising:  
2           in the event of a failure during the process of transferring ownership, a computer  
3 to utilize the log files to continue the process of changing ownership.

1   22. (PREVIOUSLY PRESENTED) The system of claim 20, further comprising:  
2           the first computer, the second computer, the third computer, and the fourth com-  
3 puter are a single computer.

1   23. (PREVIOUSLY PRESENTED) The system of claim 22, further comprising:  
2           the single computer is the destination server.

1   24. (PREVIOUSLY PRESENTED) The system of claim 20, further comprising:  
2           the first computer and the second computer are the source server.

1   25. (PREVIOUSLY PRESENTED) The system of claim 20, further comprising:  
2           the third computer and the fourth computer are the destination server.



1 26. (PREVIOUSLY PRESENTED) The method of claim 2 wherein the first ownership  
2 attribute is stored on a predetermined sector of each disk.

1 27. (PREVIOUSLY PRESENTED) The method of claim 2 wherein the second owner-  
2 ship attribute is a small computer system interface (SCSI) persistent reservation tag.